



PRELIMINARY

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

SSR4045

40 AMP
45 VOLTS
SCHOTTKY
RECTIFIER

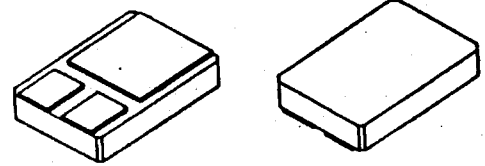
Designer's Data Sheet

FEATURES:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Hermetically Sealed Power Surface Mount Package
- Guard Ring for Overvoltage protection
- Eutectic Die Attach
- 175°C Operating Temperature

- TX, TXV and Space Level Screening Available

MILPACK



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM	45	Volts
	VRWM		
	VR		
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	40	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C)	IFSM	600	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Case	RθJC	1.0	°C/W

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET#: RS0035 B

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SSR4045

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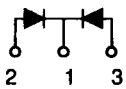
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 10 Adc, TA=25°C, 300µs Pulse) (IF = 20 Adc, TA=25°C, 300µs Pulse) (IF = 40 Adc, TA=25°C, 300µs Pulse)	VF1	0.50 0.58 0.70	Vdc
Instantaneous Forward Voltage Drop (IF = 20 Adc, TA= - 55°C, 300µs Pulse)	VF2	0.65	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR1	400	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR2	30	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	1600	pf

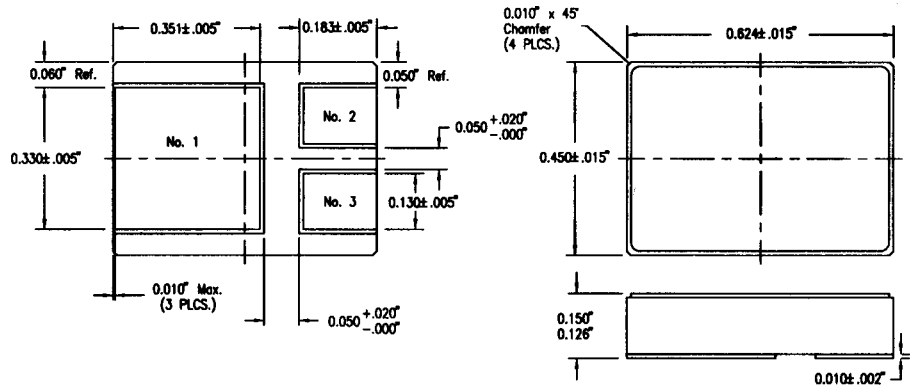
CASE OUTLINE: MILPACK

PIN 1: CATHODE
PIN 2: ANODE
PIN 3: ANODE

NOTE:
 Pin 2 and 3 should be connected in application.



COMMON CATHODE



TYPICAL OPERATING CURVES

(TA=25°C unless otherwise specified)

